

states were determined on the basis of published literature. For next generation AVDs, which are currently tested in clinical trials, various possible effect and pricing scenarios have been simulated. **RESULTS:** Applying the base case settings resulted in incremental costs of €107,925, in 2.03 incremental quality-adjusted life years (QALYs) and in a cost-effectiveness ratio of €53,165 per QALY gained. Probabilistic and deterministic sensitivity analyses as well as scenario analyses for the effect size and the AVD costs were performed in order to investigate the robustness of results. In these analyses a strong variation of the cost-effectiveness results was obtained ranging from €23,512 (best case) to €176,958 (worst case) per QALY gained. **CONCLUSIONS:** The innovative nature, the high unmet medical need and the expected unprecedented efficacy of next generation AVDs will highly likely lead to the case that even relatively high incremental cost effectiveness ratios, that have been obtained when simulating various effect and pricing scenarios, will be regarded as acceptable from a German health care payer perspective.

PSS36**IMPLICATIONS FOR TIME SAVINGS USING NEW INTRAOPERATIVE MEASURING TECHNOLOGY**Tavardkiladze G¹, Bakhshinyan V¹, Deger M², Irwin C², Rose S²¹National Research Centre for Audiology and Hearing Rehabilitation, Moscow, Russia, ²Cochlear AG, Basel, Switzerland

OBJECTIVES: Intraoperative threshold measurement is a part of the cochlear implantation procedure and in the current setting conducted by the clinicians with a standard set-up. The newly released CR220 Intraoperative Remote Assistant is a handheld device and can also be used by someone already in the operating theatre (OT). The aim of this study was to compare measurement time with the new CR220 and standard set-up and to investigate from the clinician's perspective any cost-savings created as a result of time-savings with the new device. **METHODS:** Stages of the measurement process are identified and the time is measured for each stage during 113 patients' implantation procedure. A literature review was conducted to identify the reimbursement level of this process in order to translate any time-savings to cost savings. **RESULTS:** When the clinician travels to the OT, the mean time spent per procedure with CR220 is 8.4% less than the computer set-up (163.7 minutes vs 149.9 minutes). If the measurement is conducted by someone already in the OR, the measurement time is reduced by 95.5% with the CR220 (163.7 minutes vs 7.3 min). Literature review revealed that the fee for measurement as \$18.99–22.57 per 15 minutes in the US setting and in most of the other settings this procedure is not reimbursed separately but covered under cochlear implantation. **CONCLUSIONS:** The analysis showed that considerable time is spent for the clinician to travel to OT and waiting in the OT. This "unproductive" time is not only wasteful, but also means the clinician is not available in the clinic seeing patients where their expert skills are of most value. Moreover the clinic is either underpaid or is not paid at all for this expertise and time demanding process. The new CR220 gives clinics the opportunity to allocate their limited resources efficiently.

SENSORY SYSTEMS DISORDERS – Patient-Reported Outcomes & Patient Preference Studies**PSS37****DRUG SURVIVAL RATES AND COST OF BIOLOGICAL AGENTS FOR THE TREATMENT OF MODERATE TO SEVERE PSORIASIS IN THE BALEARIC ISLANDS (SPAIN)**

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OBJECTIVES: There are few studies combining dose regimen in routine clinical practice, drug survival rates and costs of biological agents for the treatment of naïve patients with moderate-to-severe psoriasis in the clinical practice. To assess the dose regimen in routine clinical practice, drug survival rate (persistence rate) and efficiency (cost per persistence) for etanercept (ETN), adalimumab (ADA) and ustekinumab (UST) in a real practice clinical setting. **METHODS:** A retrospective study on psoriasis patients aged ≥18 years, naïve to a biological agent and a minimum of 6 months of treatment was performed in 5 public health system hospitals in the Balearic Islands (Spain) for the period from January 1st 2010 to December 31st 2013. The recorded variables were: sex, weight, age, indication (psoriasis or psoriatic arthritis), discontinuation reason and pharmacy dispensation records. Costs were based on the average wholesale price, estimating annual cost according to the first treatment received. Persistence rates were reckoned taking into account the current total days of therapy comparing posology with pharmacy supplied dose, and were estimated using the method of Kaplan-Meier. **RESULTS:** During the study period a cohort of 112 psoriatic patients (57% men) were evaluated: 37 patients with ADA (81 kg, 51 years, 27; mean weight, mean age, and prevalence of psoriatic arthritis respectively), 34 with ETN (82 kg, 52 years, 25%) and 41 with UST (76 kg, 43 years, 19%). The persistence rate at 2 years was, 48%, 62% and 81% and the cost per persistence at 2 years was 52.961 €, 40.160 €, and 30.657 € (for ADA, ETN and UST respectively). **CONCLUSIONS:** UST showed better overall drug survival compared to ETN and ADA. UST has been the most efficient alternative for the treatment of naïve patients and has shown the least budget-impact per persistent-patient at 2 years analysis.

PSS38**MEDICATION ADHERENCE AND DISCONTINUATION PREDICTED BY DISEASE DURATION IN GLAUCOMA PATIENTS: FINDINGS FROM A CROSS-SECTIONAL STUDY IN KOREA**Park KH¹, Cha JH²¹Seoul National University College of Medicine, Seoul, South Korea, ²Pfizer Pharmaceuticals Korea Ltd., Seoul, South Korea

OBJECTIVES: Although several studies reported patients with chronic disease were found to have lower medication adherence and higher discontinuation rates as disease duration increased, it is still not evident in glaucoma patients. With this perspective, this study was designed to assess the association of disease duration with medication adherence and discontinuation in glaucoma patients in Korea. **METHODS:** It was a cross-sectional, multi-centered and observational study where glaucoma outpatients with less than two years of drug use were recruited at 15 eye clinics from March to November 2013. All patients completed a self-administered questionnaire asking about their daily use of glaucoma medications to estimate adherence and discontinuation. Medication adherence and discontinuation were defined as patients administering the drug for ≥80% of prescribed days and if patients stopped taking medication for 7 consecutive days respectively. **RESULTS:** A total of 1,050 glaucoma patients were enrolled in the study. Of the total, 14.4% showed to be non-adherent to their glaucoma therapy and 7.5% had the experience of medication discontinuation. All patients were categorized into 3 groups according to disease duration: group A ≤ 1 year (n=600, 57.1%), B > 1 year and ≤ 2 years (n=415, 39.5%), and C > 2 years (n=35, 3.3%). The patients of group A with the disease duration ≤ 1 year were likely to be non-adherent to glaucoma therapy compared to those with longer disease duration. (A: 84.9% vs. B: 86% vs. C: 100%, p=.045) Highest discontinuation rate was found in group B with the disease duration between 1 and 2 years. (A: 6.7% vs. B: 8.9% vs. C: 5.7%, P=.380) **CONCLUSIONS:** The study results highlight more attention should be paid to the patients who newly started glaucoma therapy because in the patients with less than 2 years of disease duration the adherence was low and the discontinuation rate was high.

PSS39**HEALTH STATE UTILITIES FOR PRESSURE ULCERS – A COMPARISON OF CONDITION-SPECIFIC AND GENERIC MEASURES AND TIME-TRADE-OFF (TTO)**Meads DM¹, Czoski-Murray C¹, Rutherford C², Dealey C³, McGinnis E⁴, Stubbs N⁵, Wilson L¹, Nixon J¹, Hulme CT¹, McCabe C⁶¹University of Leeds, Leeds, UK, ²University of Sydney, Sydney, Australia, ³Birmingham Hospitals NHS Trust and University of Birmingham, Birmingham, UK, ⁴Leeds Teaching Hospitals NHS Trust, Leeds, UK, ⁵Leeds Community Healthcare NHS Trust, Leeds, UK, ⁶University of Alberta, Edmonton, AB, Canada

OBJECTIVES: To compare a newly developed condition-specific utility index (CSUI), the Pressure Ulcer Quality of Life Utility Index (PUQoL-UI) with generic and directly elicited TTO values. **METHODS:** The PUQoL-UI was completed by a group of patients (n=100) in England with pressure ulcers (PUs) along with the EQ-5D and own health TTO. The discriminatory power of the utility measures was assessed across PU grade and health and PU severity ratings. Multivariate regression was conducted to explore determinants of utility values. **RESULTS:** The mean sample age was 77.2 years (range 22.7–101.7), 49% were female and 50% wheelchair users. Mean (SDs) utility for superficial PUs (grades 1–2) were 0.72 (0.17), 0.70 (0.35) and 0.24 (0.16) and for severe PUs (grades 3–4) 0.67 (0.17), 0.65 (0.35) and 0.15 (0.38) for the PUQoL-UI, TTO and EQ-5D, respectively. Mean (SDs) utility by self-reported PU severity was: [Mild] 0.78 (0.16), 0.66 (0.35), 0.29 (0.36); [Moderate] 0.72 (0.17), 0.63 (0.38), 0.25 (0.34); [Severe] 0.58 (0.17), 0.70 (0.33), 0.04 (0.40) for the PUQoL-UI, TTO and EQ-5D, respectively. Regression analyses indicated both EQ-5D and PUQoL-UI values were explained by perceived severity and general health ratings but not demographics or PU grade. Duration and body part affected were additional significant explanatory factors of the EQ-5D while wheelchair use approached significance. **CONCLUSIONS:** Values were much lower for the EQ-5D than the other assessments which may be partly explained by the range in EQ-5D and partly due to background mobility issues being captured. The PUQoL-UI appears to have good discriminatory power and is recommended for use in trials of PU interventions. The utilities presented here will be useful for decision-analytic models that incorporate PU impact. Probabilistic sensitivity analyses including the PUQoL-UI will likely generate lower levels of uncertainty than the EQ-5D due to the smaller SDs for health states.

PSS40**ESTIMATING UTILITY DATA FOR PATIENT SYMPTOM SEVERITY IN CHRONIC SPONTANEOUS URTICARIA**Hawe E¹, Stull DE¹, McBride D¹, Balp MM²¹RTI Health Solutions, Manchester, UK, ²Novartis Pharma AG, Basel, Switzerland

OBJECTIVES: To obtain utility estimates suitable for use in economic models for chronic spontaneous (idiopathic) urticaria (CSU). **METHODS:** Patient-level data from three randomised clinical trials: ASTERIA I, ASTERIA II, and GLACIAL were analysed. Health states were derived from Urticaria Activity Score (UAS7), a patient-completed diary of signs and symptoms which calculates an average daily score over 7 days. Higher score means more severe symptoms. UAS7 scores for the health states were: Urticaria-free: 0; Well-controlled urticaria: 1–6; Mild urticaria: 7–15; Moderate urticaria: 16–27; Severe urticaria: 28–42. Mean EQ-5D utilities were calculated for each health state. Individual trial analyses showed inconsistent utilities across the UAS7 health states due to small subsample sizes. A mixed model was used to predict EQ-5D according to UAS7 health states in a pooled dataset containing all treatment arms and time-points from the three trials. The predictor variable was UAS7 health state and the dependent variable was EQ-5D utility. Fixed/random effects for trial and patient were included and the following covariates: UAS7 health state at baseline (Moderate or Severe), presence of angioedema at baseline and during follow-up, duration of CSU, number of previous CSU medications, and gender of the patient. A parsimonious model was selected using the approach of backwards elimination; UAS7 health state was forced into the model. The validity of pooling trials was considered through visual comparisons and interaction terms. **RESULTS:** There was a consistent improvement in EQ-5D utilities as severity of urticaria improved. Mean utilities at Week 12 ranged from 0.712 in patients with severe urticaria to 0.897 in patients who were urticaria-free. Sensitivity analysis confirmed the robustness of results. **CONCLUSIONS:** The results suggest that EQ-5D utility score increased with decreasing severity of urticaria. EQ-5D utility scores allow the comparison of HRQoL across diseases by calculating QALYs in economic models.